

8442

Diag'd. on Diag. Ch. No. 77-5

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric Air Photographic

Field No. CS-278-D Office No. H-8442

LOCALITY

State Maryland

General locality Potomac River

Locality Leonardtown

1943-42

CHIEF OF PARTY

W.D. Patterson

LIBRARY & ARCHIVES

DATE January 5, 1950

B-1870-1 (1)

8442

DATA RECORD

T-8442

Quadrangle (II):
 Southern half of
 Leonardtown 15' Quad.
 Field Office:
 War Mapping Field Party No. 1

Compilation Office:
 Baltimore, Md.

Instructions dated (II III):
 Letter dated Sept. 14, 1942

Project No. (II):

CS-278-D

Chief of Party:
 W.D. Patterson
 (No field report furnished)
 Chief of Party:
 Fred. L. Peacock

Copy filed in ^{Division of} Descriptive
~~Report No. T-~~ (VI)
 Photogrammetry Office Files

Completed survey received in office: 6-14-43

Reported to Nautical Chart Section: June, 1943

Reviewed: Nov. 1943 Applied to chart No. 553 Date: 2-9-48
 9-49

Redrafting Completed: 7-1-49

Registered: 12-12-49

Published: 12-6-49

Compilation Scale: 1:20,000

Published Scale: 1:20,000

Scale Factor (III): none

Geographic Datum (III): N.A. 1927

Datum Plane (III): ^{M.H.W.} ~~Mean Sea Level~~

✓ Reference Station (III): SOMERVILLE, 1942

Lat.: 38° 20' 11.923" 367.6 m. Long.: 76° 41' 11.150" 270.8 m. ^{Adjusted}
 (1182.4) m. (1186.4) m. Unadjusted

State Plane Coordinates (VI): Maryland

X =

Y =

Military Grid Zone (VI)

Zones "A" and "B"

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
9 lens				
8886-8889 inc.	4/15/42	1:12-1:16 p.m.	1:20,000	1.8' above M.L.W.
8899-8900 inc.	4/15/42	1:32-1:34 p.m.	1:20,000	1.8' above M.L.W.
8902-8903 inc.	4/15/42	1:36-1:37 p.m.	1:20,000	1.8' above M.L.W.
8919-8922 inc.	4/15/42	2:06-2:10 p.m.	1:20,000	1.1' above M.L.W.
Single Lens Soil Conservation Service Photos:				
AHX 5-82 to 5-91 inc	4/14/38	Unknown	1:20,000	Unknown
AHX 5-96 to 5-106 "	4/14/38	Unknown	1:20,000	Unknown
AHX 7-49 to 7-58 "	4/20/38	Unknown	1:20,000	Unknown
AHX 7-63 to 7-73 "	4/20/38	Unknown	1:20,000	Unknown
AHX 7-119 to 7-127 "	4/20/38	Unknown	1:20,000	Unknown
AHX 7-143 to 7-151 "	4/20/38	Unknown	1:20,000	Unknown
AHX 10-11 to 10-19 "	4/24/38	Unknown	1:20,000	Unknown
AHX 10-134 to 10-144 inc	4/24/38	Unknown	1:20,000	Unknown
AHX 10-167 to 10-178 "	4/24/38	Unknown	1:20,000	Unknown

Tide from (III): Table of predicted tides; reference stations, Washington & Baltimore with corrections to Shipping Point, St. Clement Bay & Broome Is., Patuxent R. respectively.

Mean Range: Shipping Point 1.8' Spring Range: Shipping Point 2.1'
 Broome Is. 1.3' Broome Is. 1.5'

Camera: (Kind or source) U.S. Coast & Geodetic Survey Nine Lens Camera (focal length $8\frac{1}{4}$ ")

Soil Conservation Service, Dept. Agr., single lens camera

Field Inspection by: *War mapping party* date:

Field Edit by: *None* date:

Date of Mean High-Water Line Location (III):

Same as date of Nine Lens photographs

Projection and Grids ruled by (III) Washington Office date: 10/20/42

" " " checked by: Washington Office date: 10/30/42 & 11/3/42

Control plotted by: Joseph Steinberg date: 11/30/42

Control checked by: J. Edward Deal, Jr. date: 12/1/42

Radial Plot by: J. Edward Deal, Jr., & Joseph Steinberg date: 12/10/42 to 12/15/42

Detailed by: George O. Fellers date: 2/4/43 to 6/2/43

Reviewed in compilation office by: Henry P. Eichert date: 6/2 to 6/9/43

Map Manuscript
 Elevations on ~~Field Edit Sheet~~
 checked by: *None*

date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 82.2

Shoreline (More than 200 meters to opposite shore): 49 statute miles

Shoreline (Less than 200 meters to opposite shore): 26 statute miles
(centerline of rivers only)

Number of Recoverable Topographic Stations established: 51

Number of Temporary Hydrographic Stations located by radial
plot: None

Leveling (to control contours) - miles: None

Roman numerals indicate whether the item is to be entered
by, (II) Field Party, (III) Compilation Party, or, (VI) the
Washington Office.

When entering names of personnel on this record give the
surname and initials (not initials only).

Remarks:

26 CONTROL:

Twelve U. S. Coast and Geodetic Survey triangulation stations, which were used as horizontal control for secondary and detail points, lie within the limits of this map drawing. Eleven other U. S. Coast and Geodetic Survey triangulation stations and two reference monuments, which lie just outside of the limits of this map drawing, also were used as horizontal control.

Triangulation stations within the limits of this map drawing are:

- .. ABELL, 1942
- .. CHERRY COVE, 1908
- .. COMPTON, 1908
- .. JACOBSON, 1942
- .. LEONARDTOWN CATHOLIC CHURCH SPIRE, 1942
- .. LEONARDTOWN WATER TANK, 1934, r.1942.
- .. MILEYS, 1908
- .. NEWTON NECK CATHOLIC CHURCH, 1908
- .. RADEC, 1908
- .. SOMERVILLE, 1942
- .. SPALDING, 1934
- .. TURF, 1908

Triangulation stations just beyond the limits of this map drawing are:

- BEN R.M., 1907
- BUSHWOOD, 1934
- BUSHWOOD SACRED HEART CHURCH SPIRE, 1901
- CHASE, 1942
- COLLISON, 1942
- EDWARDS, 1942
- HUTCHINS 2, 1942
- K. of P. FLAGSTAFF, 1908
- POINT FARM, 1934
- SOLOMON'S METHODIST EPISCOPAL CHURCH, 1908
- SOTTLER, 1934
- ST. JOSEPH'S CHURCH BELL TOWER, 1942
- STUMP R.M. 1, 1907

At two of the above triangulation stations, namely, BEN R.M., 1907, and SPALDING, 1934, the field party established field inspection stations at easily identified points in order to assure greater accuracy in pricking on the photographs. These points have been shown on the reverse side of the map drawing with small orange circles.

27 RADIAL PLOT:

The radial plot for this map drawing is described in section 4 of the descriptive report for Sub-Projects CS 278-A and CS 278-D, submitted January 15, 1943. *filed in Division of Photogrammetry*

28 DETAILING:

All of the detailing, except for most of the drainage, was done from the nine lens photographs. There were large areas, especially in the northeastern and northwestern sections of the map drawing where it was necessary to detail from the outer part of the wing chambers. All drainage was determined by stereoscopic examination, the single lens pictures obtained from the Soil Conservation Service being used in most cases. All drainage was shown with a solid black acid ink line.

Inasmuch as there was no inshore field inspection, roads and trees were classified directly from the photographs. All churches and schools shown on the map drawing were taken from the U.S. Geological Survey Leonardtown 15' Quadrangle, Edition of 1939.

The field inspection of the shoreline was satisfactory.

A large part of the northern section of the map drawing was not detailed because of the lack of sufficient photographs.

29 SUPPLEMENTAL DATA:

T-256, T-1103, T-2598, T-2730, T-2748, T-2861 are previous surveys covering portions of the area of this map drawing. None of these surveys are available to the compilation office.

Partial coverage only, 1:20,000, 1902 and 1905,

30 MEAN HIGH WATER LINE:

The mean high water line was detailed according to the field inspection except where there was minor disagreement with the office interpretations. These discrepancies were very few and not serious enough to be noted.

31 LOW WATER AND SHOAL LINES:

No low water or shoal lines are indicated by the field inspection. However, those which were readily visible on either the nine lens or the single lens photographs have been shown.

Low water lines as detailed and shown on this map drawing should be considered approximate.

Shoal lines have been shown as an aid to the hydrographer in the course of any future hydrographic survey.

32 DETAILS OFFSHORE FROM THE HIGH WATER LINE:

No offshore details were indicated on the field inspection and none could be seen on the office photographs.

33 WHARVES AND SHORELINE STRUCTURES:

All wharves, piers, and other shoreline structures which were indicated by the field inspection, or which could be seen on the office photographs, have been shown.

34 LANDMARKS AND AIDS TO NAVIGATION:

Forms 524 and 567 are being submitted with this report on which are furnished positions for three aids to navigation appearing within the limits of this map drawing.

Chart Letter L 364 (1949), Div. of Chart Files.

Div. of Photogrammetry General Files

35 HYDROGRAPHIC CONTROL:

Form 524 is being submitted with this report for each of forty-five recoverable topographic stations, including the three aids to navigation mentioned above, which fall within the limits of this map drawing. Positions and descriptions are furnished thereon. All of these are believed suitable for use as control for future hydrographic surveys.

In addition, six azimuth reference marks have been shown on the map drawing. Positions and descriptions for these are being submitted on form 524. These are not believed suitable for future hydrographic controls.

Two recoverable topographic stations; namely, "Indian" 1942, and "Shell", 1942, which might have been of use for future hydrographic control, and which were established by the field party, have not been shown on this map drawing. "Indian", 1942 lay too far outside the limits of the map drawing to plot, and radial resections to "Shell", 1942 could be obtained from only two photographs.

37 GEOGRAPHIC NAMES:

There was no geographic name inspection by the field party for the map drawing. Several sources and references were consulted, however; namely, the U.S. Geological Survey Leonardtown 15' Quadrangle Map, the U. S. Coast and Geodetic Survey nautical and aeronautical charts, the U. S. Coast Pilot, the U.S. Coast Guard Light List, and the Rand McNally Road Atlas. Only the more important names were shown where there was little or no doubt as to their identification. The names of all churches and schools were taken from the U. S. Geological Survey Quadrangle. All geographic names have been shown on an overlay which has been prepared for this purpose. It is recommended that an inspection of geographic names be made during the field edit. *List of approved names is attached.*

L.H.

38 HORIZONTAL ACCURACY:

Horizontal accuracy of the location of well-defined and less well-defined points of detail is believed to be within the limits set forth

in the instructions for Project CS-278, paragraph 54, dated March 4, 1942.

39 RECOMMENDATION FOR FUTURE SURVEYS:

Though it is believed that the interpretation of the photographs is generally correct, it is recommended that this map drawing be field edited for additions, corrections, and deletions. As stated under section 28, "DETAILING", a large part of the northern section of the map could not be detailed. *No field edit done in this map area.*

40 JUNCTIONS:

No contemporary surveys border this map drawing to the north. Satisfactory junctions of planimetric detail were made with the following map manuscripts which are part of Project 278-A:

T-8115 to the west,
T-8116 to the east,
T-8139 and T-8140 to the south

41 REMARKS:

The heads of two bodies of water; namely, St. Clement Bay and Breton Bay, lie in the southern part of the area covered by this map drawing. The town of Leonardtown is located near the head of Breton Bay. At the head of both of these bodies of water are small marsh areas. Most of the land directly adjacent to the shoreline is under cultivation. The land area appears about equally divided between farm land and small wooded areas. Extensive woodland, however, is found east of Breton Bay in the southeastern part of the map drawing. In the northeastern part of the map drawing are several small inlets and creeks tributary directly to the Patuxent River. A small section of the Patuxent River shoreline appears in the extreme northeast corner of this map drawing. Stereoscopic examination of the photographs indicates the land in general to have more or less of a gently rolling character.

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Because of the great difference in scale, no accurate comparison of this map drawing with the U.S. Geological Survey Quadrangle map of this area could readily be made. In general, the agreement appears good.

45 COMPARISON WITH NAUTICAL CHARTS

This map drawing appears to be in good agreement with the nautical charts covering the same area.

One important discrepancy was noted; T-8142 shows a marsh area along the shore of the Patuxent River at approximate latitude $38^{\circ} 21' 40''$ and approximate longitude $76^{\circ} 30' 20''$. This marsh area is not shown on chart 539.

Another small discrepancy was noted at about latitude $38^{\circ}16'$, longitude $76^{\circ}42-1/3'$; T-842 shows a small marsh tip which is omitted from chart 558. In addition, there is a slight disagreement in the shape of the shoreline at this point.

Respectfully submitted,
June 9, 1943

George O. Fellers
George O. Fellers
Photogrammetric Aid

Map Drawing, Overlay, and
Descriptive Report
Reviewed by:

Henry P. Eichert
Henry P. Eichert
Jr. Photogrammetric Engineer

Compilation of Map
Drawing Supervised by

Joseph Steinberg
Joseph Steinberg
Asst. Photogrammetric Engineer

and

J. Edward Deal, Jr.
J. Edward Deal, Jr.
Asst. Photogrammetric Engineer

Approved and Forwarded:
June 11, 1943

Fred. L. Peacock
Fred. L. Peacock
Commander, C. and G. Survey
Officer-in-Charge
Baltimore Field Office

M 234	
27	383765
26	382766 U.S.G.B
25	"
24	"
23	"
22	382767 U.S.G.B
21	
20	383765
19	383765
18	
17	382765
16	381764 U.S.G.B
15	382765
14	"
13	"
12	"
11	382766 U.S.G.B
10	382766 U.S.G.B
9	"
8	"
7	382767
6	382767
5	383767
4	"
3	383766
2	383767
1	382767 U.S.G.B

Decisions

Remarks

GEOGRAPHIC NAMES

Survey No. T-8442

Leonardtown, Md.
Name on Survey

	A	B	C	D	E	F	G	H	K	
<u>St. Clement Bay</u>	✓									1
<u>St. Clement Creek</u>	✓									2
<u>Clement's School</u>	✓									3
<u>Bannaker School</u>	✓									4
<u>Bayside School</u>	✓									5
<u>Newton Neck</u>	✓									6
<u>Canoe Neck Creek</u>	✓									7
<u>Shipping Point</u>	✓									8
<u>Cedar Point</u>	✓									9
<u>Combs Creek</u>	1									10
<u>Breton Bay</u>	✓									11
<u>Lover's Point</u>	✓									12
<u>Buzzard Point</u>	✓									13
<u>Leonardtown</u>	✓									14
<u>Glebe School</u>	✓									15
<u>St. Marys River</u>	✓									16
<u>California</u>	✓									17
<u>St. John School</u>	✓									18
<u>Mill Creek</u>	✓									19
<u>Cuckold Creek</u>	✓									20
<u>Patuxent River</u>	✓									21
<u>Deep Creek</u>	✓									22
<u>Tomakokin Creek</u>	✓									23
<u>Guest Point</u>	✓									24
<u>Cecil Creek</u>	✓									25
<u>Pawpaw Point</u>	✓									26
<u>Naty Creek</u>	✓									27

1	382767	
2	"	
3	382767 U.S.G.	
4	382767 U.S.G.	
5	"	
6	382767	
7	"	
8	383766	
9	383766	
10	"	
11	383765	
12	382766	
13	"	
14	"	
15	"	
16	"	
17	"	
18	"	
19	"	
20	"	
21	382766	
22	383765	
23	"	
24	383765	
25	383765	
26	382766	
27	382765	

M 234

Decisions

Remarks

GEOGRAPHIC NAMES

Survey No. *T-8442*

Leonardtown, Md.

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A	B	C	D	E	F	G	H	K	
<i>St. Clement Shores</i>									1
<i>Tenneson Creek</i>									2
<i>Miley Creek</i>									3
<i>Abell</i>									4
<i>Oakley</i>									5
<i>Dynard</i>									6
<i>Clements</i>									7
<i>Maryland Springs School</i>									8
<i>Miski Run</i>									9
<i>Greenhill Run</i>									10
<i>Nelson Run</i>									11
<i>Cherry Cove Creek</i>									12
<i>Compton</i>									13
<i>Society Hill</i>									14
<i>Pawpaw Hollow</i>									15
<i>McIntosh Run</i>									16
<i>Mulberry Point</i>									17
<i>Town Run</i>									18
<i>Gravelly Run</i>									19
<i>Glebe Run</i>									20
<i>Moldier Run</i>									21
<i>Hollywood</i>									22
<i>Broad Run</i>									23
<i>Brooks Run</i>									24
<i>Lows Run</i>									25
<i>Beauvue</i>									26
<i>St Andrews Church</i>									27

	1	382765
	2	"
	3	383765
	4	383767
	5	382766 U.S.G.D.
	6	383765
	7	382765
	8	"
	9	383765
	10	383766
	11	
	12	383765
	13	382766
	14	
	15	
	16	
	17	
	18	
	19	
	20	
	21	
	22	
	23	
	24	
	25	
	26	
	27	

M 234

Remarks

Decisions

GEOGRAPHIC NAMES

Survey No. T-8442

Leonardtown, Md.

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A	B	C	D	E	F	G	H	K	
<u>Western Branch</u>	.	.							1
<u>Redgate</u>	.	.							2
<u>Clarks Wharf</u>	.	.							3
<u>Bayside Wharf</u>	.	.							4
<u>Abells Wharf</u>	.	.							5
<u>Hickory Landing Creek</u>	.	.							6
<u>St. Andrews Road</u>	.	.							7
<u>Indian Bridge Road</u>	.	.							8
<u>Three Notch Road</u>	.	.							9
<u>Cedar Lane</u>	.	.							10
<u>Brandywine and Cedar Point Railroad</u>	.	.							11
<u>Spring Branch</u>	.	.							12
<u>Britton</u>	.	.							13
									14
State No. 244									15
									16
									17
State No. 574									18
State No. 237									19
" " 242									20
" " 470									21
" " 40243									22
" " 245									23
(These road numbers are based on 1949 Maryland State Highway Map)									24
									25
									26
									27

Names underlined in red approved
by L. Heck on 11/11/43

State No. 471 (in part)

State No. 471

State No. 235

State No. 245

(see U.S.G.S. "Leonardtown for application with Lows Run" (near Abells Wharf and Lows Pt.)

SSW from No. 5 and then to SE

NE from No. 235

Junction No. 5 westward through Clements

SW from 237 near Clements

SSE from No. 242

SW from No. 5 to Compton

Leonardtown - Hollywood

10-5-49

L. Heck

Division of Photogrammetry-
Review Report of
Planimetric Map Manuscript T-8442

Subject numbers not used in this report have been adequately covered in other parts of the Descriptive Report.

28. Delineating.-Field inspection was available for the shoreline only. All inshore detail was delineated on the basis of an office interpretation of the photographs. A few secondary roads and all fence lines were added. In addition, drainage was corrected over the entire map manuscript. The northern portion of the map manuscript was not delineated due to a lack of sufficient photograph coverage.

42. Comparison with Previous Surveys.-

T-256	1:20,000	1848
T-1103	1:20,000	1868
T-2748	1:20,000	1905
T-2861	1:20,000	1907-08

This map manuscript supersedes all former surveys, excepting contours, in their common area *for nautical charting purposes.*

44. Comparison with Existing Topographic Quadrangles:-

Leonardtwn, Md., U.S.G.S., 1:62,500 1933-36

45. Comparison with Nautical Charts:-

Chart No. 539	1:40,000	Sept. 1934
Chart No. 558	1:40,000	Aug. 1935

51. Application to Nautical Charts:-This map manuscript has been examined but not applied to nautical charts.

This review report was written by K.N. Maki from notes made by the reviewer.

Reviewed by:

Under Direction of:

W.D. Harris *K.N. Maki*
W. D. Harris 11/43

D. Benson
D. Benson *K.N. Maki*

APPROVED BY:

S. V. Griffith *12/49*
S. V. Griffith Technical Asst to the
Chief, Review Section
Div. of Photogrammetry

H. Edmundson
H. Edmundson
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
O. S. Reading
Chief, Div. of Photogrammetry

W. M. Acasife
W. M. Acasife
Chief, Div. of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T8442

Record of Application to Charts

[illegible]

M-2168.1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.